



Credit Union Bookkeeping To Be Speeded With New Machine, System Being Installed

The bookkeeping work of the Y-12 Employees Credit Union, sorely pressed during the past several weeks because of the steadily increasing business of the organization, soon will be greatly eased by the installation of a modern system devised particularly for credit unions by the Burroughs Adding Machine Co. Don Phillips, president; and Carl Cooper, treasurer of the credit union; announced last week that a new bookkeeping machine has been installed and that with the arrival of especially designed forms expected this week the operations of the organization will be greatly speeded.

Business Booms In Quarter

Business of the credit union was booming during the first three months of the year, according to Mrs. Lorena Causey, office manager of the organization. During that period the credit union received from all sources, purchase of shares and repayment of loans, the sum of \$124,529.60. In the same time a total of \$123,583.59 was loaned to Y-12ers.

The total number of share holders in the credit union at the end of March was 1,159, a substantial increase from the previous month, Mrs. Causey said.

Patience Is Requested

Treasurer Cooper said that the complete transition in the bookkeeping system of the credit union may take about 60 days. During this time, he asks that all Y-12ers having business with the credit union be patient if some delays arise in handling loan applications or withdrawal of share money. After the new system is installed, Cooper said, an immediate check can be made on all accounts of the credit union and a statement issued to every share holder as to the status of his account.

ORNL Physics Division Man Will Address Seminar Meet

A. Simon, of the Oak Ridge National Laboratory physics divisions, will be the principal speaker at the weekly meeting of the Oak Ridge Physics Seminar at 4 o'clock Friday afternoon, April 20. The meeting will be held in the East Lounge of the Ridge Recreation Hall and all Y-12 technical and scientific personnel are invited to attend.

The subject of discussion at the session will be "Frohlich's Theory of Super-Conductivity."

Attendance Record Improves In Y-12

Realizing the importance of the work at hand, employees of Y-12 have maintained an exceptionally good attendance record month in and month out. Although, of course, there is no actual contest between various departments there still is a pride and friendly rivalry in setting good attendance marks every week that is reflected in the weekly standings.

Six Departments 'All Present'

For the week ending April 8 the plant-wide absentee mark was 3.1 per cent, a drop of .7 per cent from the preceding week. For the latest reporting period there were six departments with "all present" records, an increase of 100 per cent over the preceding week. All of the six departments were in the Minor League with 15-49 employees scheduled.

The "all present" departments were Utilities Maintenance, Tools, and the Building Department.

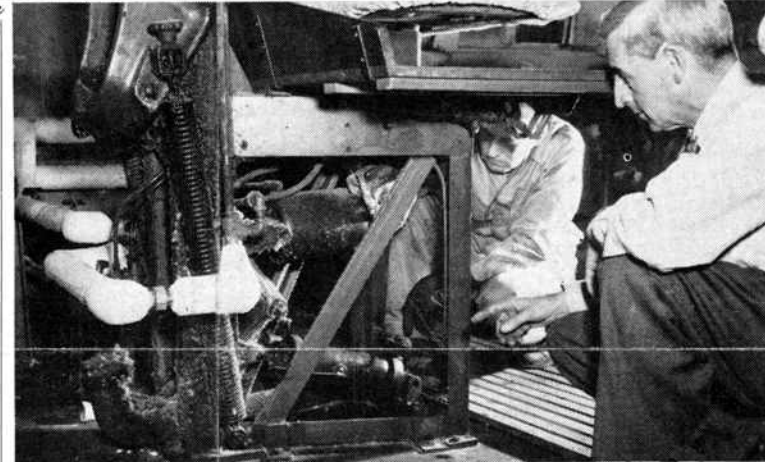
Continued on Page 2

Many Y-12ers Get UCC Book; Supply Rapidly Diminishing

The supply of those attractive booklets—Products and Processes of Union Carbide and Carbon Corporation—is diminishing rapidly at the office of The Bulletin, North Portal, where they may be obtained absolutely free of charge by any Y-12er just for the asking.

The 32-page booklet, profusely illustrated, is full of interesting information about the work done by Union Carbide and its subsidiaries in the United States and Canada. It should be in the hands of all Y-12ers and members of their families.

So drop by The Bulletin office today and get yours—no mail orders, please.



OPENING PHASES OF THE ANNUAL SPRING CLEAN-UP CAMPAIGN IN Y-12 ARE SHOWN in these pictures. At top left an unused platform at the east end of the big warehouse, Bldg. 9720-5, is being demolished by a crew from the Buildings and Grounds Department. On the platform are L. A. Walton, labor foreman; B. N. Strunk, fire safety and security coordinator of the Manufacturing Office Division; and Fire Capt. E. F. Greer. At right, top, a truck from the Maintenance Division is hauling away the debris from the demolished platform. In the lower picture C. A. McAlister, foreman of the Y-12 Laundry Department, right, is watching as W. M. Kiggins is cleaning a pressing machine. Note the accumulated dust at left of the machine and the cylinder cleaned by Kiggins.

Dickerson Makes Clean Sweep With Slides; Carbiders See Winning Prints Of UCC Event

Herman Dickerson, of Y-12 made a clean sweep in the color slide contest held Tuesday night, April 10, by the Carbide Camera Club. He was awarded first, second and third prizes by R. O. Gray, of Oak Ridge National Laboratory, who judged the event. S. A. Hluchan, of ORNL, received two honorable mentions for his entries in the contest, held in connection with the month-

ly meeting of the club in its headquarters in the Y-12 East Portal. The topic of the contest was "Children."

Gray, a metallographer of ORNL, spoke on "The use of Photography in Metallurgy." He illustrated his lecture with a set of superb slides in both black and white and color. The slides showed the dark room setup, photo-micrograph equipment for magnifications up to 2,000 times and the equipment for preparing samples as well as some of his pictures of metal grain structures.

Prize winning photographs in the 1950 Union Carbide and Carbon Corporation Camera Club competition held last year in New York were exhibited and discussed by the club members. The Oak Ridge Carbide Camera Club members were urged by President Joseph Lundholm to make plans to enter the 1951 contest, details of which will be announced later.

The president also cited the photographic contest to be held in connection with the East Tennessee Agriculture and Industrial Fair in Knoxville next autumn as a ripe field for entries as numerous valuable prizes are offered.

The contest scheduled for the May meeting of the club, 7:30 o'clock Tuesday night, May 8, will be for black and white portrait photographs.

ATOMIC SUB HULL LOOMS

The Navy hopes to award contracts for the construction of a hull for an atomic-powered submarine before the end of the year, according to the Associated Press.

INDIANS SEEK URANIUM

The New York Times says the Saskatchewan Natural Resources Department is teaching Indians of the Canadian province how to detect uranium deposits.

'Face Lifting' In Y-12 Makes Plant Cleaner

Clean-Up Week Pushed To Eliminate Hazards Of Fire And Accidents

The big Y-12 plant area is getting one of its most concentrated "face liftings" this week as the annual Spring Clean-Up Week is being observed. From one end to the other brooms were flying, mops were swishing and trucks busy hauling debris away in an enthusiastic effort to thoroughly purge the area of accumulated trash, thereby making Y-12 a cleaner and safer place in which to work.

Divisional and departmental safety committees are working with fire, safety and security coordinators to carry out the clean-up work. Frequent "before and after" inspections have been scheduled to see that every possible step is taken to obtain the desired objective.

Check Points Are Listed

As a guide to safety committee chairman, members and inspectors an inspection report form has been provided to check various phases of the campaign to insure that all possible fire and accident hazards are eliminated during the week. Here are some of the questions posed for the inspectors:

Are aisles, corridors, exits and stairways unobstructed?

Are all outside fire escapes free from obstructions?

Are the waste and rubbish receptacles adequate?

Are sand urns provided for disposal of cigarettes and matches?

Is space beneath stairs free from accumulation of storage or materials?

Are approved metal cans with self-closing lids used to store oily waste, polishing cloths or similar materials?

Are locker rooms and rest rooms cleaned?

Are loading platforms and docks clean of rubbish and unneeded materials?

Are attics or basements used for storage?

Are work shops, laboratories, tool rooms and work benches clean and free from materials not needed?

Are office desks, filing cabinets, safes and other equipment arranged in an orderly manner?

Are boiler rooms used for storage?

Are vaults free from waste paper, rubbish and obsolete material?

Are yards surrounding buildings clean and free from waste, debris and rubbish?

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SAFETY SCOREBOARD

Your Plant Has Operated

54 Days

Without A Lost Time Accident

Through April 15

The Bulletin

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Miss Virginia K. Gobble



GOBBLE - PHILLIPS

Many Y-12 friends of Miss Virginia Gobble, of the Employee Relations Department; and Ray C. Phillips, of the Product Fabrication Department; will be glad to hear of their engagement and approaching marriage scheduled for 8 o'clock Tuesday night, May 8, at the Chapel-On-The-Hill. The ceremony will be performed by the Rev. T. A. Burkett.

The bride-elect is the daughter of Mr. and Mrs. Herbert F. Kidd, 153 Alger Road, Oak Ridge. Phillips is the son of Mrs. Frank A. Phillips and the late Mr. Phillips, of Bethesda, Ohio.

At her wedding Miss Gobble will wear a white suit with navy accessories. She will carry a prayer book with a white orchid. During the ceremony nuptial music will be presented by Mrs. Glenn A. Harter, organist, and Mrs. Betty Ann Fields, soloist.

Mrs. June Messer, sister of the bride-elect and also a Y-12er, will be maid of honor. She will wear a navy suit with pink accessories and will carry a bouquet of pink roses and pink carnations.

The father of the bride-elect will give her in marriage.

Paul J. Stooksbury, of Oak Ridge, will be best man. Ushers will be Herbert F. Kidd, Jr., Knoxville; and Christopher C. German, Oak Ridge.

Carbide Wives Will Hold Monthly Meeting Tonight

The monthly meeting the Carbide Wives will be held at 7:30 o'clock tonight, Wednesday, April 18, in the East Lounge of the Ridge Recreation Hall. Mrs. Fred Sexton, wife of a Y-12er, is president of the group and has urged all wives of Y-12 members to attend the affair.

Hostesses for the meeting will be Mesdames B. F. Shins, chairman; R. G. Nichol, R. K. Abele, D. W. Kline, P. T. Farley, Paul E. Scott and T. A. Watson.

You need your 10 fingers and 10 toes—be careful where you put them.



Congratulations are in order for **H. G. King**, of the Analytical Laboratory Department. Harry and Mrs. King were presented with a lovely girl on April 2 at the Oak Ridge Hospital. Mrs. King and daughter Susan Rene are getting along fine, so's pappy! . . . Woops! Just about let the stork get away without getting pertinent information from him. If anyone has noticed a peculiar aroma in the air around the laboratory just sit back and take it easy—it was only the smell of smoke from the cigars which were passed around by **LeRoy Thornton** who was celebrating (and still is) the arrival of LeRoy Vincent Thornton, Jr. on March 30 at the Harriman Hospital. Congratulations to the proud parents . . . **Sara J. Ballinger** and **Rosemary E. Cabbage** were given a hearty welcome when they were added to the department's roster . . . **Eunice Jones**, **Martha May** and **Alice Elder** entertained with a tea at Eunice's home in Oak Ridge on April 7 in honor of **Isabelle (McMurray) Peck**, who was a recent bride. Out-of-town guests attending the tea were Misses Marjory and Mattie Jones from Berea State Teacher's College, Berea, Ky. . . . The department is it's old self again now that **Mary Brewer** is back in action. They are glad to see her back and hope that this time she is completely well and feeling fine . . . **Martha McCombs** spent her recent long week end with her twin sister, **Mary Penn**, a former Y-12er, in Columbus, Ohio.

Betty Stephens, of the Plant Records Department, spent a recent week end in Huntsville, Ala., visiting friends there . . . **Evelyn Harmon** spent the week end at Carson Newman College in Jefferson City.

The Plant Engineering Department extends a hearty welcome to **J. W. Hill**, **J. J. Moynihan** and **Donald McAlister**, who have been added to the roster.

Dorothy Caldwell, of the Materials Chemistry Division, and her family are visiting relatives and friends in Washington, D. C., while on vacation this week.

Capt. Raymond Ledford, of the Guard Department, and his family spent last week's vacation visiting relatives in Alabama—some folks say Ray went 'way down there especially to do some fishing—so his fellow fishermen wouldn't know just what size fish he caught! . . . **G. S. Pollitt** is visiting his brother in Cincinnati, Ohio, while on a two-week vacation . . . **O. D. Cloyd** has returned from a week of vacation.

S. B. Ward, of the Electrical Maintenance Department, and his wife spent two weeks of vacation in Spartanburg, S. C. . . . **R. H. Freeman** spent a week of vacation at home in Clinton . . . **J. L. Titlow** vacationed last week at home in Knoxville—doubtless he spent most of his time fishing . . . **V. W. Beckham** has returned from a week of vacation at home in Oak Ridge.

Sympathy is extended to **Helen Sisson**, of the General Maintenance Office, and her husband, whose grandfather, **M. M. Justice**, died last week at the ripe old age of 101 in Coalfield, Tenn.

Calm and collected—yessir, that's what **Kay Sideris**, of the Analytical Laboratory Department, and **Mary Cusman**, of Products Chemical; are in times of emergency—particularly Mary. Seems as how the gals were en route to Knoxville on a recent dreary, rainy day (not unusual of late) in Kay's auto. Buzzing peacefully along the Turnpike—then came a C-R-A-H, crunch and some badly wrinkled metal work on Kay's vehicle. The gals remained calm, naturally, and Mary started across the street to get some candy while the mishap was being investigated. It was raining—so Mary borrowed Kay's



umbrella—and carried it all the way to and from the candy shop—completely closed. Such composure certainly is commendable.

The Stores Department extends get well wishes to **J. R. Bayless**. **Ruth Merrell** is the newest addition to the Property Department's roster; and a hearty welcome to her.

The Manufacturing Office Department extends sympathy to **J. D. Raulston** over the death of his brother April 11, in Maryville, Tenn. . . . **Alberta Kaiser** was given a hearty welcome-back by the department when she was restored to the roster last week.

Pat Zerby, of the Health Physics and Hygiene Department, underwent a minor operation last week in the Oak Ridge Hospital. Her co-workers wish her a speedy recovery.

H. D. (Yardbird) Smith, of the Buildings and Grounds Department, is on vacation this week at home in Harriman. He plans to spend most of his spare time fishing over at the Watts Bar Lake.

Mary Jennings, of the Uranium Control and Computing Department, spent the week end in Nashville, Tenn. . . . **Bertha Crowder** has returned from a week of vacation at her home in Bowling Green, Ky. . . . **C. L. Pigott** had as recent guests E. E. D. Obercht and his family from Cedar Rapids, Iowa . . . The department extends get-well wishes to **Katie Williams** who is suffering a severe case of tonsillitis.

Jeanne Rogers, of the Analytical Chemistry Division, had her parents from Pontiac, Mich., as guests last week . . . The department welcomes **J. E. Griffin** to the roster . . . **Virginia B. Smith** and her husband **Guy**, of the Chemical Department, moved to their new domicile in Clear View Hills, near Knoxville.

Pat Ravage, of the Isotope Research Department, had her vacation schedule all fouled up—she took off for that week of vacation to Miami, Fla., this week instead of last week . . . **Paul Hagelson** (now with AEC) gave a farewell party for his friends and fellow workers last Saturday P. M. at the Knights of Columbus Hall . . . **Frank Knox**—a former Texan—declares he has found a little spot of Texas right here in Tennessee. Frank recently acquired a house and some acreage over on Emory Road which is near the Solway entrance to Oak Ridge. That we'd like to see.

P. C. Zienmke, of the Safety Department, and his wife went visiting to Atlanta, Ga., while on vacation last week.

ARC Chapter, Drive Leader Receive Honor Certificates

George W. Flack, of Y-12, chairman of the Oak Ridge Chapter of the American Red Cross, has received notification from Southeastern regional headquarters of the Red Cross that the Oak Ridge chapter is officially "over the top" in its 1951 campaign. The notification came in a letter from Francis P. Simerville, Southeastern regional director, that also enclosed "certificates of honor" for the chapter and for Logan Emlett, of Oak Ridge National Laboratory, 1951 fund campaign chairman, in recognition of the achievement.

In the 1951 campaign, employees of Y-12 contributed \$4,



6-2591
Y-12 Photos By Vince Moore
SEVERAL Y-12 MUSICIANS ARE AMONG MEMBERS OF THE OAK RIDGE SYMPHONY ORCHESTRA, pictured at top with Dr. Waldo Cohn, of the Oak Ridge National Laboratory biology division stationed in Y-12, director. The Y-12ers, including employees and members of their families, are shown in the lower picture. From left are Larry Lavers, son of W. D. Lavers; Harry Bainbridge, Mrs. Frederick T. Howard, Mrs. Clarence L. Schuske, Frances DiCarlo, Joan Luce, daughter of John Luce; Miss Margaret Ross and Daniel Sachs, son of Mrs. Frances Sachs.



The following Y-12 employees were patients in the Oak Ridge Hospital last week: V. W. Arms, Sr., Research Services; Ernest W. Palmer, Field Maintenance; Wylie T. McGee, chemical; Orland C. Blanton, Product Chemical; James H. Wyde, ANP.

Attendance Record In Y-12 Improves

Continued from Page 1

Cafeteria, Uranium Control and Computing, Superintendents and Employee Relations. The first three were repeaters from the preceding week. In second place in the Minor League was Manufacturing Office with an absentee percentage of 1.8 per cent. Third place was held by the Janitors with 2.4 per cent of its personnel absent.

In the Major League of departments with more than 50 employees scheduled first place was taken by Electrical Maintenance for the week ending April 8 with an absentee record of 1.76 per cent. Close behind was the Guard Department with 1.79 per cent absenteeism. Maintenance Shops was third with a mark of 2.1 per cent.

Analytical Chemistry Group Meets Tonight; Dr. Dole Talks

The Analytical Group of the East Tennessee Section of the American Chemical Society will meet at 8 o'clock tonight, Wednesday, April 18, in the gymnasium of the Woodland school in Oak Ridge. The many Y-12 members of the group are urged to attend.

Prof. Malcolm Dole, of Northwestern University, will be the principal speaker. His topic will be "The Origin of Atmospheric Oxygen."

193.26, or 167 per cent of the assigned goal of \$2,500 for the movement. Other Oak Ridge Carbide plants also generously contributed to the campaign and the Company added a gift of \$1,500. The city-wide goal of the Red Cross was \$22,731.

Symphony Orchestra Has Several Y-12 Members On List

Oak Ridge is rightfully proud of its two fine musical organizations—the Symphony Orchestra and Community Chorus. As usual, a number of Y-12ers and members of their families are active in both of these cultural organizations.

The orchestra is rated with the best in the South, particularly as it is a voluntary group of musicians playing for the pleasure they obtain. Dr. Waldo Cohn, of the Oak Ridge National Laboratory biology division stationed in Y-12, is director of the group.

Members of the orchestra with Y-12 connections include Harry Bainbridge, Frances Di Carlo, Margaret Ross, Mrs. Frederick T. Howard, Mrs. Clarence L. Schuske, Larry Lavers, Joan Luce and Daniel Sachs.

The next appearance of the orchestra will be with the orchestras of the Oak Ridge High School and the Jefferson Junior High school in a festival concert. It will feature Thomas Moore, former Oak Ridge student, as soloist in the Bruch violin concerto. After this concert the orchestra will present its annual children's concert at 2 o'clock Saturday afternoon, May 5.



Two Y-12 employees were listed as parents of daughters born last week at the Oak Ridge Hospital. The fathers and date of birth of their daughters are Lester P. Parrett, Field Maintenance, April 10; and Carl G. Brewster, Medical, April 10.

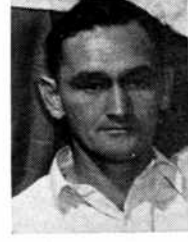
Texas A.&M. Group Will Meet Saturday

Alumni of Texas A. & M. living in Oak Ridge will meet at 7 o'clock Saturday night, April 21, at the Park Hotel in Clinton when the anniversary of the Battle of San Jacinto will be observed. Any Y-12ers interested in attending are asked to communicate with Frank Knox, telephone 7443, who will arrange reservations.

Y-12 SPORTS NEWS



6-2356 Y-12 Photo By Vince Moore
SHED NO TEARS FOR THESE "POOR LITTLE Orphans" for they are the champions of the C Bowling League. The Orphans took the title in a roll off against the Hooks, second half of the season champions, after the Orphans had won the first half title. In the group at left are, standing, from left, Elmore Koons, George Riddle and Joe Dunlap while Nelson Tibbatts is seated. At right, from top, are Ernie Cobble, Avery Kendig and Elmer Green.



6-2106

Orphans Whip Hooks For C Loop Pin Title By Romping To Three Point Win In Roll Off

The Orphans won the C League title Wednesday, April 11, by taking three points from the Hooks, winners of the second half. The Orphans won the first half and placed second in the second half, and won the league title in a roll off between the two winners. The Hornets finished in third by winning three points from the fourth place Short Circuits. The Guards and the Hurricanes split and the Moles won three from the Thin Pins.

Frank Favatella of the Short Circuits and Elbert Scott of the Guards tied for high scratch and handicap single games with a 209 scratch and a 247 handicap, third high for the final half of the season. Elmore Koons of the Orphans had the high scratch series with 540 and Morris Ballis of the Hurricanes had the high handicap series with 667, second high for the half.

The Guards had a 818 third high scratch single game and a 1025 second high handicap single game. The Orphans took both scratch and handicap series with a 2389 and a 2866.

League standing at the end of the last half of the season follows:

Team	W	L	Team	W	L
Hooks	44	20	Hurricanes	29	35
Orphans	37	27	Guards	29	35
Hornets	36	28	Thin Pins	28	36
Short Cir.	33	31	Moles	20	44

Silver Diner Keglers Blank Y-12ers With Pin Barrages

The Y-12 keggers of the Oak City Ridge Bowling League lost four points to the Silver Diner team Monday, April 9. The Diner men had three 900 games in gaining their victories. The line scores for Y-12 were: 775, 916, 833—2524; for Silver Diner 901, 921, 922—2744.

Frank Gragg was high for the night with 177, 178, 188—543; Walt Sherrod had the other 500 series with 152, 211, 161—524. The team was rounded out by Elmore Koons 156, 192, 152—490; Nelson Tibbatts 136, 176, 173—485 and Conrad Roberts 154, 159, 169—482.

Women Bowlers Of Y-12 Lose Two Games To Friedman Team

The Y-12 team of the Oak Ridge Women's City Bowling League lost two points to the Max Friedman Jewelers keggerettes Thursday, April 12. Line scores for the night were Y-12 703, 698, 62—2026; for the Jewelers 729, 630, 676—2035.

Olyne Kappelmann was high for the night for the Y-12ers with

Rippers Move Close To B League Title

The Rippers of the B League moved closer to the third period of the season title Thursday, April 12, by winning four points from the Tigers. The Rippers won the first third of league play and came from behind to tie the All Stars for the championship of the second third. The Bums moved back into second place in the last period, seven games behind the Rippers, by taking four from the Comets. The All Stars collected three from the Wolves, the Wasps won four from the One-91 keggers, the Bumpers won three from the Cubs and Maintenance took three from the Head Pins.

Elmer Green of the Bumpers had the high scratch single game with a 230. He also had the high handicap game with 261, fourth high for this third. Frank Gragg of the Wolves had the high scratch series with a 603, third high. In handicap series Elmer Green was high with 666, second best this third. Bruce Whitaker of the All Stars with 665 was third high and Ed Sise of the Wolves 659 fourth high.

The All Stars collected all the team honors with a 896 scratch single and a 1038 handicap single, both third high. Their series scores were scratch 2629, handicap 3055, both second high for this third. The Wasps had a 2963 handicap series fourth high.

League standing follows:

Team	W	L	Team	W	L
Rippers	31	4	Bumpers	17	19
Bums	24	12	Cubs	16	20
Wolves	22	14	Head Pins	14	22
All Stars	22	14	One-91	13	23
Wasps	18	18	Tigers	12	24
Comets	17	19	Maintenance	11	25

159, 178, 116—453; and Oradean Upchurch followed with 163, 150, 123—436. Betty Whitehorn with 141, 124, 136—401; Ruth Law 147, 127, 116—388 and Juanita Reed 95, 119, 134—328 completed the team.

The Y-12ers won three games from the Bailey Brothers Laundry team in a match rolled on Sunday, April 1.

Y-12 Golf League Will Begin Play This Week With 10 Teams Primed To Compete For Honors

First Baseball, Softball Practice Drills; Organizational Meetings For Y-12ers Set

Cards To Drill Thursday Night At Gamble Valley; Plant Softie Loop Will Perform At Elza Field In '51

Organizational meetings and first practice sessions for the Y-12 varsity baseball and softball teams will be held this week and practice sessions for the Plant Softball League also are slated to start. Need it be said that all plans are conditional on the unpredictable weather?

The first diamond practice for the Y-12 Cardinals will be held on the Gamble Valley diamond at 6 o'clock Thursday night, April 19. All candidates for the team are urged to be on hand for the workout and subsequent drills to be held at the same hour Friday night, April 20, Monday night, April 23; Thursday night, April 26; 3:30 p. m., Sunday, April 29; 7:30 p. m., Monday, April 30; and 6 p. m., Wednesday May 2.

Several members of the 1950 team that brought home the 1950 Oak Ridge championship are available for duty and a likely number of "rookies" are believed to be listed among the many new employees.

The varsity softball team will hold its initial workout at 6 o'clock Friday night, April 20, at the Turnpike Park. Another workout will be held at 7:30 o'clock next Monday night, April 23; with the following to be held at 6 o'clock Wednesday night, April 25, all at the Turnpike arena.

More practice dates for the varsity softballers will be announced in The Bulletin next week.

The permanent summer home of the Plant Softball League will be the Elza Field. This field will be open, beginning this week, for practice sessions at 6 p. m., 7 p. m. and 8 p. m. Team managers are asked to communicate with the Recreation Office, North Portal, telephone 7753, for practice times and equipment.

All league games will be played on the Elza grounds on Monday, Tuesday, Wednesday and Thursday nights of each week during the season.

Cracker Jax And Kemps Battle For Title Of Last Half Women's Pin Loop This Week

The Cracker Jax won two games from the Kemps Tuesday, April 10, to bring the W League up to the wire in deciding the second half winner. The Hi Balls won two from the Woes and the Controllers won two from the Mix-Ups.

The second half schedule will come to a close on Tuesday night of this week with the usual roll off and the Kemps again taking on the Cracker Jax. The latter team must win all three games to gain a tie for the final half of the season and if this does happen another roll off must be held to determine the victor. The winner of the second half will qualify to meet the Woes, first half winners, for the season's championship.

Margaret O'Neal of the Kemps had the high scratch single game of 193 April 10, second high for this half. She also had the high handicap game with 237. Mary Ballard had the high scratch series with 447 and Ann Matlock of the Cracker Jax had the high handicap series with a 585.

The Kemps took all the team honors for the night with a 746 scratch single, a 994 handicap single, a 2016 scratch series and a 2760 handicap series.

League standing follows:

Team	W	L	Team	W	L
Kemps	28	17	Controllers	23	22
Crack. Jax	25	20	Woes	18	27
Hi Balls	24	21	Mix-Ups	17	28

Y-12 Cuemen Win Four From Carbides

The Y-12 team of the Atomic Pocket Billiard League won four points from the K-25 Carbides Sunday, April 15, to move back into second place. "Red" Wiest of the Y-12 team had the high run for the night with 27.

Are you an "average" Y-12 bowler?

If you are a male bowler and your average is 145—you are just an average bowler. Here's why. There are 207 masculine keggers in the three Y-12 plant leagues, and a compilation of scores throughout the season reveal a 145.65 average.

Keglerettes (feminine version of bowlers) in Y-12 total 40 in

Toppers, Splinters Get Shutout Victories

The Toppers of the D League set a new high in handicap series while winning four points from the Pick Ups Tuesday, April 10. The Splinters won four points from the Old Men, the Angstroms won three from the Strikers and the Cermets won three from the Isotopes.

The Strikers previously had clinched first place for the season by winning both the first and second half of play. The round-up of activities in the loop was staged Tuesday night of this week to determine final holders of second through seventh places in the tightly-bunched standings.

Elmer Green of the Splinters had the high scratch game with 201 last week. He also had the high handicap series with a 638. T. R. Webber of the Pick Ups had the high handicap game with 232 and Frank Gragg of the Strikers had the high scratch series with 561.

The Toppers took all the other team honors for the night to add to their 3009 handicap series high for this half. Their high scores were: scratch single 869, handicap single 1065, second high, and

Split Season Planned; Captains Will Decide Playing Time Of Tilts

The 10-team Y-12 Golf League is scheduled to open play this week over the Oak Ridge Golf and Country Club course with all of the daisy digging lads primed for action. The season will be divided into two halves of play with the winners of each section, if different teams triumph, meeting for the season's title.

Captain's Set Playing Times
 In the schedule for the first half of the season, published below, the team will meet on any convenient days during the week. The exact playing time will be determined by the team captains by mutual agreement.

The 10 teams in the circuit and their captains are Rippers, Jay Holtzknecht; Four Woods, George Nettle; Green Rays, Elmore Koons; Rough Riders, Doug Laviers; Deacons, Clarence Johnson; Turf Riders, Les Cater; Left Overs, Bill Morgan; Four Hundreds, Dave Crouse; Divots, J. Sawyer; Hooks, Don Matlock.

Best Players On Plant Team
 After player handicaps and averages are compiled for this season's play they will be used as a basis for selecting a Y-12 representative team to meet outsiders. The top eight golfers, including those playing in the ladder competition, will form this team.

Officers of the Y-12 Golf League are Ward Foster, president; Nelson Tibbatts, vice president; Arnold Tiller, secretary-treasurer; and George Nettle, matchmaker. Nettle, Don Matlock and K. B. Brown will serve on a board of protest, if one is needed.

Schedule for the first half of the season follows:

April 16—Rippers vs. Hooks. Four Woods vs. Divots. Green Rays vs. Four Hundreds. Rough Riders vs. Left Overs. Deacons vs. Turf Riders.
April 23—Left Overs vs. Four Woods. Turf Riders vs. Green Rays. Deacons vs. Rough Riders. Hooks vs. Divots. Four Hundreds vs. Rippers.
April 30—Divots vs. Four Hundreds. Rippers vs. Left Overs. Turf Riders vs. Four Woods. Deacons vs. Green Rays. Rough Riders vs. Hooks.
May 7—Rough Riders vs. Green Rays. Hooks vs. Four Hundreds. Divots vs. Left Overs. Turf Riders vs. Rippers. Four Woods vs. Deacons.
May 14—Hooks vs. Turf Riders. Left Overs vs. Deacons. Four Woods vs. Rippers. Four Hundreds vs. Rough Riders. Divots vs. Green Rays.
May 21—Deacons vs. Divots. Four Hundred vs. Turf Riders. Left Overs vs. Hooks. Green Rays vs. Four Woods. Rippers vs. Rough Riders.
May 28—Green Rays vs. Rippers. Divots vs. Rough Riders. Four Hundreds vs. Deacons. Left Over vs. Turf Riders. Hooks vs. Four Woods.
June 4—Turf Riders vs. Rough Riders. Deacons vs. Hooks. Rippers vs. Divots. Four Woods vs. Four Hundreds. Green Rays vs. Left Overs.
June 11—Four Hundreds vs. Left Overs. Rough Riders vs. Four Woods. Hooks vs. Green Rays. Rippers vs. Deacons. Turf Riders vs. Divots.

scratch series 2429, third high for this half of league play.

League standing follows:

Team	W	L	Team	W	L
Strikers	40	20	Old Men	29	31
Angstroms	31	29	Isotopes	28	32
Pick Ups	30	30	Toppers	28	32
Cermets	30	30	Splinters	24	36

Engineering students are baffled by the fact that often the girls with the most streamlined shapes offer the most resistance.

Are You An Average Bowler? Figures Reveal 'Pin Par' For Men In Plant Loops Is 145.65; For Women 118.45

Are you an "average" Y-12 bowler?

If you are a male bowler and your average is 145—you are just an average bowler. Here's why. There are 207 masculine keggers in the three Y-12 plant leagues, and a compilation of scores throughout the season reveal a 145.65 average.

Keglerettes (feminine version of bowlers) in Y-12 total 40 in

the W League. Some perusal of the season's records show that these 40 girls have averaged just 118.45.

A breakdown of the three men's leagues shows the B League with the highest average with 86 bowlers posting an average score of 150.17. The C League is the lowest with 61 pinmen posting only 139.3 average for the season to date.

The D league is right down the alley and on the nose with the average of the three leagues—as the figures shown the D Loop players with 145.60 average.

The averages in the men's league range from 110 up to a fine 184 while the lassies range from 86 to 143.

So what? Maybe a lot of folks will start pitching horse shoes. Billy Rose got rich that way.

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**'Face Lifting' Makes
Y-12 Plant Cleaner**

Continued from Page 1

rubbish, dry grass and weeds?

Are fire doors obstructed?

Are there any blocked or inaccessible fire extinguishers or inside hose lines?

If any shacks or outbuildings are used for storage are they in good shape and contents arranged in an orderly manner?

If all of the conditions listed are found satisfactory—the clean-up campaign can be considered highly successful.

Cooperation Is Excellent

A high degree of cooperation has been exhibited in efforts to make the 1951 Spring Clean-Up Week successful. The Maintenance Division of the plant is working hard in handling its role—that of disposing of accumulated trash and removing obsolete structures.

Under direction of C. B. Hopkins, of this division, the Buildings and Grounds Department and the Transportation Department personnel are on the alert for all calls from various points throughout Y-12 to haul trash away as soon as it is prepared for removal. A call to the Transportation Department, telephone 7391, will bring a truck.

Campaign Is Widespread

Employees throughout Y-12 have been reminded of the drive by means of automobile bumper streamers, stamped mail and posters. The campaign also is coordinated with similar movements in other Carbide installations in Oak Ridge as well as throughout the city itself where the Oak Ridge Safety Council and the Roane-Anderson Co. are cooperating to carry away the winter's accumulation of trash in residences of the community.

Members of the Y-12 fire, safety and security coordinating group include B. H. Strunk Manufacturing Office; Nelson L. Tibbatts, Maintenance Division; W. S. Heron, Chemical; C. H. Roddy, Engineering; J. R. Whitcomb, Industrial Relations; H. P. House, Analytical and Materials Chemistry Divisions; C. P. McWright, Biology; L. E. Parsons, Electromagnetic Research; J. E. Keeton, Isotope Research and Production; and Robert Devinish, ANP.

Fire Department Assists

Closely working with the coordinators and departmental and divisional safety committees are members of the Y-12 Fire Department with Chief W. O. Elam and Capt. E. F. Greer paying particular attention to details of the campaign and offering assistance wherever needed.

Y-12 Area Superintendent W. D. Lavers has pointed out that the fire and safety record of the plant indicates the need for the general clean-up campaign to rid the area of many hazards conducive to accidents and fires and to eliminate unsightly conditions. He also has commended Y-12ers for wholehearted participation in similar movements in the past—declaring that the cooperation has paid off in excellent fire and safety records.

"Ever see a dog that wagged his tail up and down?"
"Yes. One that was lying down."

**Rides Wanted
And Offered**

RIDERS WANTED—Have room for four passengers from Knoxville, Scott St., to Central St., to Western Ave., to Keith St. and Solway Road, straight day shift. C. A. McAlister, Bldg. 9728 (Laundry) telephone 7148.

RIDERS WANTED—Have vacancies for riders from Burlington area, Knoxville, via Solway Road, straight day shift. A. W. Alexander, Bldg. 9704-1, telephone 7372.

RIDE WANTED—From West Knoxville, 7 a. m. to 3 p. m. and 3 p. m. to 11 p. m. shift. Ruth Huddleston, telephone 7436.

RIDE WANTED—From Rifle Range Road, Fountain City, straight day shift, E. S. Ledford, telephone 7556.

RIDE WANTED—From West Clinch Ave., Knoxville, straight day shift, Jean Hull Craig, telephone 7560.

RIDE WANTED—From Neibert Springs Road, Chapman Highway area, Knoxville, straight day shift, C. M. McCarley, telephone 7793.

RIDE WANTED—From Claxton Community, Clinton Highway, to Y-12, straight day shift, Andy Huddleston, telephone 7508.

RIDE WANTED—From Lonsdale section Knoxville, straight day shift, Ruth Merrell, telephone 7400.

**Gwathmey Will Speak
At Meeting Of ACS**

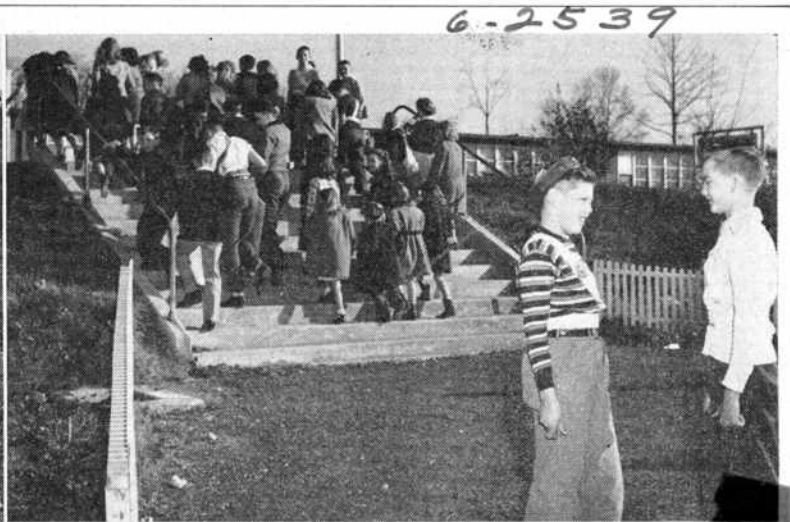
Several members of the East Tennessee Section of the American Chemical Society plan to go to Knoxville tomorrow night, Thursday, April 19, to hear an address by Dr. Allan T. Gwathmey at a meeting of the group. The talk will be given at a meeting of the section at 8 p. m. at Dabney Hall, University of Tennessee campus. This meeting will be preceded by a dinner at 6:45 p. m. at the S&W Cafeteria.

The speaker has been assistant professor of chemistry at the University of Virginia since 1948 and 10 years previously was research associate in the school of chemistry of that university. He was born in Richmond, Va., in 1903 and attended preparatory school there. Later he received a B. S. degree from Virginia Military Institute, a similar degree in electrochemical engineering at the Massachusetts Institute of Technology in 1928 and his Ph.D. degree in physical chemistry from the University of Virginia in 1938.

Dr. Gwathmey's principal researches have been in the field of surface chemistry of metals. After devoting about 10 years in the study of the subject an especial method of studying surface reactions was developed using large crystals on which different faces could be identified and studied.

In his talk tomorrow night the Virginian will discuss phases of the subject, the title of his talk "The Study of Surface Reactions With the Aid of Large Metal Crystals."

Coordinator—The guy who has a desk between two expeditors.

**Sons Of Y-12ers On School Safety Patrols
Learning Valuable Lessons; Shielding Others**

Protection of Oak Ridge school children from the hazards of traffic is one of the outstanding features of the safety program taught throughout the city's schools. A leading factor in this protection is offered by the school safety patrolmen—organized in every Oak Ridge school and listing among their members many sons of Y-12 fathers.

**Y-12 RECREATION
PROGRAM DESCRIPTION
CITED NATIONALLY**

That story in The Bulletin back on February 28 by Recreation Supervisor Arnold Tiller describing the recreation program planned for Y-12ers during the spring and summer months has drawn commendation from the National Industrial Recreation Association. The association in an "idea clinic" note to its members cited the story as "making a great deal of sense for any company with an employee recreation program," as a means of acquainting employees with plans for their entertainment and recreation. The story reminded old employees of services available and acquainted new employees with the recreational opportunities offered by the plant program.

**'Headlines' Programs
Will Be Suspended**

The Headlines in Chemistry radio program, presented weekly by the East Tennessee Section of the American Chemical Society, will be suspended for the spring and summer months, the publicity committee of the group has announced. The programs have been presented over Oak Ridge Radio Station WATO for 61 consecutive weeks and were well received.

Sydney Katz, of K-25; and Joe Ruzicka, of the Atomic Energy Commission, have been in charge of the broadcasts. Roberta McCutcheon, V. C. Jackson and L. A. Stephens, all Y-12ers; assisted in publicizing the programs and presenting them. In addition Y-12ers appearing as guests on the program include C. D. Susano and L. E. Burkhart.

The sponsors hope to resume the broadcasts during the autumn months, probably in September or October.

Channels—The trail left by inter-office memos.

Up on a hill in the western section of Oak Ridge is Linden school—facing the curving and "roller coaster" LaSalle Ave., which because of its contour, make it difficult for motorists to see youngsters in the street in front of the school and vice versa. Just picked at random for this story about operation of a school safety program—it is typical of other city schools in that patrol members include sons of Y-12ers.

In this case the youthful patrolmen at Linden include George Lay, son of F. F. Lay, of the Guard Department; and James Haggard, son of J. V. Haggard, of Chemical. Working under instruction of Miss Ruth Jewell, director of the school safety patrol, the youngsters are proud of their roles in providing protection for the rest of the pupils in the school.

Begins Early—Ends Late

The day in the life of a safety patrol member begins early and ends late. Two of them ride each school bus, meeting the bus at the terminal each morning and checking with drivers before the vehicle starts its run. On arrival at the school the first duties of the patrolmen is to lead the other children off the bus, helping the younger ones dismount. Other patrolmen are stationed at the top of the steps leading to the school from the street and all endeavor to keep the spirited youngsters from running or skipping up the steps and doing anything else that might lead to an accident. The routine is reversed after school.

Other patrolmen work at street crossings to help children cross the thoroughfares, seeing that they stay within the white lines marking the crossing.

Caution Signs Placed

Caution signs in black and yellow warning motorists that they are entering a school zone are placed in the middle of the street before and during school hours. They are removed after school is dismissed each afternoon—all by the young safety patrolmen.

However, that is not all in the daily routine of the school safety patrolman. Each Friday morning the boys meet with their patrol sponsor and discuss problems met during the week. Problems arising are worked out—and most

A DAY IN THE LIFE OF A School Safety Patrolman is shown in the above pictures. George Lay, safety patrolman at Linden school and son of F. F. Lay, of Y-12, is at left in white shirt in the upper left hand picture aiding Larry Swinford place caution signs in the street. At right above, George, now at the right of Jackie Hedden, has just seen that a group of children safely debarked from a bus and start up the steps to the school. In the picture at left below, Miss Ruth Jewell, right, director of Linden safety patrol, holds her weekly meeting with patrol members. George is third from right in the first row and James Haggard, son of J. V. Haggard, another Y-12er, is third from right in the back row. In the bottom picture at right, George is in the center of a squad assigned to lower Old Glory after the school day. Other patrolmen shown are Gene Davis and Donnie Bennett, handling the flag, and Jackie Hedden. Clyde Safriet, Larry Swinford and Jackie Rainwater.

likely another potential accident is averted.

Another duty assigned the safety patrolmen is the raising and lowering of the United States flag each day at the schools. Assigned squads carry out this rite.

Training Aids Youngsters

This training inculcates the belief in principles of safety—not only in the schools but in later life—and is a typical phase of off-the-job safety that reflects most favorably on the youngsters and their parents.

However, the work of the safety patrolmen at the schools can all go for naught if their objectives are not recognized by motorists passing the schools. Nowhere is the need for safe and slow driving more pointed than in school zones.

**Russian Bomb Is 'Jalopy'
Compared To U.S. Model**

William L. Laurence, science writer for the New York Times, has told the Newspaper Advertising Executives Association that Russia has only "jalopy" bombs compared with "our super 1951 model." Laurence maintained that the United States has a 150-year start over Russian industrial development and also is ahead of the Reds on atomic and hydrogen bomb development. Lack of uranium also is hampering the Russians in their efforts to push an atomic bomb program, Laurence said.